Application No.: 09/854204 Docket No.: CCI-010CN

Group Art Unit: 1642

Amendments to the Claims:

This listing of claims will replace all prior version, and listings, of claims in the application.

Listing of Claims

- 1. (Currently Amended) A membrane translocation peptide carrier moiety consisting of
 - (a) RRMKWKK (SEQ ID NO: 2)

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- (b) SEQ ID No 2, wherein one to three amino acid residues are replaced by a naturally or non-naturally occurring amino acid residue;
- (c) SEQ ID No 2, wherein the order of one two or more amino acid residues are is reversed;
 - (d) SEQ ID No 2, wherein both (b) and (c) are present together;
- (e) SEQ ID No 2, wherein a spacer group is present between any two amino acid residues;
- (f) (e) SEQ ID No 2, wherein one or more amino acid residues are in peptoid form;
- (g) (f) SEQ ID No 2, wherein the (N-C-C) backbone of one or more amino acid residues of the peptide carrier moiety has been modified; or
 - (h) (g) SEQ ID NO:2, having any of (b)- $\frac{(g)(f)}{(g)}$ in combination.

Claims 2-48 (Canceled)

49. **(Previously Presented)** A carrier moiety according to claim 1, wherein one to three amino acid residues are replaced by homologous replacement.

50. (Canceled)

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51. (Previously Presented) A carrier moiety according to claim 1, wherein

one to three amino acid residues are replaced by non-homologous replacement.

52. (Canceled)

53. (Previously Presented) A carrier moiety according to claim 51, wherein

the replacement amino acid is a non-natural amino acid selected from the group

consisting of: alpha* and alpha-disubstituted* amino acids, N-alkyl amino acids*, lactic

acid*, halide derivatives of natural amino acids, L-allyl-glycine*, β-alanine*, L-α-amino

butyric acid*, L-γ-amino butyric acid*, L-α-amino isobutyric acid*, L-ε-amino caproic

acid*, 7-amino heptanoic acid*, L-methionine sulfone**, L-norleucine*, L-norvaline*, p-

nitro-L-phenylalanine*, L-hydroxyproline[#], L-thioproline*, and methyl derivatives of

phenylalanine (Phe), L-Phe (4-amino)[#], L-Tyr (methyl)*, L-Phe (4-isopropyl)*, L-Tic

(1,2,3,4-tetrahydroisoquinoline-3-carboxyl acid)*, L-diaminopropionic acid # and L-Phe

(4-benzyl)*, wherein the notation * indicates that the derivative is hydrophobic.

54. (Previously Presented) A carrier moiety according to claim 1, wherein

the order of the second and third amino acids from the C-terminal end of the peptide is

reversed.

Claims 55-58 (Cancelled)

59. (Previously Presented) A carrier moiety according to claim 1, wherein

one or more amino acids are in peptoid form.

60. (Previously Presented) A carrier moiety according to claim 1, wherein

one to three amino acid residues at any of positions 1, 2, 3, 5, 6 or 7 of said formula (SEQ

ID No. 2) are replaced by a naturally or non-naturally occurring amino acid.

61. (Currently Amended) A carrier moiety according to claim 1, wherein the

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order of one two or more amino acid residues at any of positions 1, 2, 3, 5, 6 or 7 2 and 3, 3 and 4, 4 and 5, or 5 and 6 of said formula (SEQ ID No. 2) are reversed.

62. (Previously Presented) A carrier moiety according to claims 60, wherein the amino acid residue at position 3 or 7 of said formula (SEQ ID No. 2) is replaced.

- 63. (Previously Presented) A carrier moiety according to claim 60, wherein the amino acid residue at position 3 of said formula (SEQ ID No. 2) is replaced.
- 64. (Currently Amended) A carrier moiety according to claim 61, wherein the order of the amino acid residue at position 3 or 7 of said formula (SEQ ID No. 2) is reversed with the amino acid at position 2.
- 65. (Currently Amended) A carrier moiety according to claim 61, wherein the order of the amino acid residue at position 3 of said formula (SEQ ID No. 2) is reversed with the amino acid at position 4.
- 66. (Previously Presented) A carrier moiety according to claims 49 wherein homologous replacement occurs at any of positions 1 and 2 of said formula (SEQ ID No. 2).
- 67. (Previously Presented) A carrier moiety according to claims 51 or 53, wherein non-homologous replacement occurs at any of positions 3, 4, 5 and 6 of said formula (SEQ ID No. 2).
- 68. (Previously Presented) A carrier moiety according to claims 1, 49 or 51, wherein two amino acid residues of said formula (SEQ ID No. 2) are replaced by homologous or non-homologous replacement.
- 69. (Previously Presented) A carrier moiety according to claim 68, wherein amino acid residues at positions 2 and 3 of said formula (SEQ ID No. 2) are replaced.

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70. (Previously Presented) A carrier moiety according to claim 68, wherein amino acid residues at positions 4 and 5 of said formula (SEQ ID No. 2) are replaced.

- 71. (Previously Presented) A carrier moiety according to claim 68, wherein amino acid residues at position 5 and 6 of said formula (SEQ ID No. 2) are replaced.
- 72. (Previously Presented) A carrier moiety according to claim 53, wherein the halide derivative is selected from the group consisting of trifluorotyrosine*, p-Cl-phenylalanine*, p-Br-phenylalanine*, and p-I-phenylalanine*.
- 73. (Previously Presented) A carrier moiety according to claim 53, wherein the methyl derivative of phenylalanine (Phe) is selected from the group consisting of 4-methyl-Phe*, and pentamethyl-Phe*.
- 74. (**Previously Presented**) A carrier moiety of claims 1, wherein the free carboxyl group of the carboxy terminal amino acid residue is in the form -C(O)-NRR', wherein R and R' are each independently selected from the group consisting of: hydrogen, C1-6 alkyl, C1-6 alkylene or C1-6 alkynyl, aryl, each optionally substituted a heteroatom.
- 75. (Previously Presented) A carrier moiety according to claim 74, wherein free carboxyl group of the carboxy terminal amino acid residue is a carboxamide group.